COPY OF PAPERS ORIGINALLY FILED

|--|--|

PTO-1449 "				Application No. Applicant(s 10/028,009 Paul			) E. Doucette, et al.					
Information Disclosure Chation In an Application			Docket Number 004578.1147	Group Art Unit Unknow	rt Unit Filing Date							
	US PATENT DOCUMENTS  DOCUMENT NO. DATE NAME CLASS SUBCLASS FILING DATE											
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING	G DATE				
-5	A	4,839,652	06/13/89	O'Donnell, et al.								
7 / X	В	4,983,970	01/08/91	O'Donnell, et al								
	C							•				
	D											
	E						-77					
	F						12 11.11	(5)				
	G					:	۲. ۲					
	H					1						
	I				<del> </del>	<u> </u>						
	J				<del> </del>	\	ناند					
	L											
Ш	L			•		<u> </u>	<u> </u>					
			FOREI	GN PATENT DOCU	JMENTS							
		DOCUMENT NO.	DATE	COUNTRY	UNTRY CLASS	SUBCLASS	TRANSLATION					
	M				_	<del> </del>	YES	NO				
	N											
	0				<b>-</b>	<del>                                     </del>	-					
	P											
	Q					<del> </del>						
H	l	<u></u>			1			-				
		D	OCUMENT (Inclu	ding Author, Title, So	urce, Pertinent	Pages, and Date	)					
1	R	U.S. Serial No. 09/56	7,543, filed May 5, 2	2000, entitled "PHASEI	ARRAY ANTE	NNA DATA RI	E-ALIGNM	ENT", by				
<u>//</u>	S	inventors G. Van And	lrews, et al., 22 page	s of text and 4 drawing	sheets. (Attorne	y Docket No.004	5/8.1005, i	уу <u>ь</u> 016).				
-	T											
Ev	L	NER		DATEC	ONSIDERED	/ 1	<del></del>					
EA	WIATT.		1	DATEC	4/	6/6 {						
EX	AMIN	ER: Initial if citation consider	red, whether or not citation	on is in conformance with MF	PEP § 609. Draw line	through citation if n	ot in conform	ance and not				
LUIT	- ILLIE	l. Include copy of this form v	III III III III III III III III II			<del></del>						

Page 1 of 3 Application No. Applicant(s) PTO-1449 Paul E. Doucette, et al. 10/028,009 Group Art Unit Filing Date Docket Number मिक्न mation Disclosure Citation Unknown December 21, 2001 004578.1147 In an Application MAR D 8 2002 **U.S. PATENT DOCUMENTS** ADEMOCUMENT NO. DATE NAME CLASS SUBCLASS **FILING DATE** 3,887,918 06/03/1975 Bailey 4,688,045 08/18/1987 Knudsen В 06/07/1988 Hopwood, et al. C 4,749,995 4,886,069 12/12/1989 O'Donnell D E 5,084,708 1/28/1992 Champeau, et al. F 5,223,843 06/29/1993 Hutchinson 12/14/1993 Abaunza G 5,271,034 05/09/1995 Н 5,414,433 Chang Ī 5,461,389 10/24/1995 Dean 5,764,187 06/09/1998 Rudish, et al. J 08/24/1999 Κ 5,943,010 Rudish, et al. L 6,031,485 02/29/2000 Cellai, et al. FOREIGN PATENT DOCUMENTS TRANSLATION **SUBCLASS** DOCUMENT NO. DATE **COUNTRY CLASS** YES NO 06/06/1984 IJК M 2 130 798 A 2 313 711 A 12/03/1997 UK WO-01/67548 A2 09/13/2001 PCT P Q DOCUMENT (Including Author, Title, Source, Pertinent Pages, and Date) Thompson, Rick et al., "An 8-Bit 2-Gigasample/Second A/D Converter Multichip Module for Digital Receiver Demonstration on Navy AN/APS-145 E2-C Airborne Early Warning Aircraft Radar", IEEE Trans on CPMT Part B, vol. 21, No. 4, 11/1998, pp. 447-462. Brinegar, C., et al. "Design of an Integrated RF Filter for the Direct Digization Front End of a Dual GPS/GLONASS Software Radio Receiver", IEEE RAWCON '98 Proceedings, 8/1998, cover sheet and pp. 277-280. Ho, K.C., et al., "A Digital Quadrature Demodulation System", IEEE Trans. on AES, Vol. 32, No. 4, 10/1996, pp. 1218-1227. **EXAMINER** DATE CONSIDERED EXAMINER: Initial if citation egasidered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant. U.S. PATENT AND TRADEMARK OFFICE

DAL01:653108.1

	COPY OF PAPEI
1	ORIGINALLY FILE
_	

									Pa	ge 2 of 3	
PTO-1449 A					Application No. 10/028,009			Applicant(s) Paul E. Doucette, et al.			
				Docket Numb		Group Art Uni		Filing Date			
	Inf	ormation Disclosu	re Citation	004578.114		Unknown		Decemb		001	
		In an Applica	Rost								
			6								
		MAR 0	2 2000					-	_		
		12 HALL 0	, mix (4)	U.S. PATENT	DOCUME	NTS					
		12	<del>- 8/</del>			1	1				
		DOCUMENTANA	MARKATE	NAMI	£	CLASS	SUBCLAS	SS   FI	LING D	ATE	
وكراني	U	6,052,085	04/18/2000	Hanson, e	t al.						
	v	6,141,371	10/31/2000	Holmes, e	et al.	<u> </u>		SEP (	<u> </u>		
المرتبع	w	6,191,735	02/20/2001	Schinel	ler			CC 2	EIV	ED	
$\sim$	x						Tenh	UFP (	6 201	72	
	Y						36///	POLOGY C	en-	<u></u>	
	Z				· · · · · · · · · · · · · · · · · · ·			Dology C	wer 26	900	
	AA			<del></del>			-	<del>-   -  </del>			
	ВВ			<del>-</del>							
	СС				•	<u> </u>			-		
	DD					<del> </del>		_			
	EE						<del></del>				
	FF							_			
			<u> </u>			<u> </u>	_l				
			FO	REIGN PATEN	T DOCU	MENTS					
		DOCUMENT NO.	DATE	COUNTI		CLASS	SUBCLAS	TR	ANSLA	TION	
		DOCUMENT NO.	DATE	COUNT	XI.	CLASS	SUBCLAS		ES	NO	
	GG										
	нн										
	II										
	11						<del>                                     </del>				
$\vdash$	KK						<del>                                     </del>				
	<u>_</u>		<u></u>			1					
		D	OCUMENT (	Including Author	, Title, Sou	rce, Pertinent	Pages, and D	ate)			
	LL	Brown, A. et al., "Dig	ital Doumcony	ersion Test Pesult	with a Rea	adhand I -Bone	GPS Pacaina	<sub>र"</sub> [प्रप्रद	Digital		
X-14		Avionics Systems Con	nf. 10/1994, co	ver sheet and pp. 4	26-431.			-	•		
XB	MM	Eerola, V. et al., "Dire and Systems, 5/1992,	cover sheet and	1 pp. 2653-2656.							
x:	NN	Steyskal, Hans, "Digi 176, No. 2, 02/1996,						House, D	edham,	vol.	
EX	AMI		//			NSIDERED					
				<del></del>		4/0	6/65				
EV	ABAIRIE	R: Initial if citation consider	red whether or not	citation is in conforma	nce with MDEI			if not in co	nformance	and not	
con	sidered.	Include copy of this form w	ith next communic	eation to the applicant.	arec with Mice	goos. Diawilyi	- anough chanon			. 4114 1101	

U.S. PATENT AND TRADEMARK OFFICE

1



				_				Page 3 of 3
PTO-14	49		Application 1 10/028,009			Applicant(s) Paul E. Dou	cette et al.	
Info	ormation Disclosi In an Applica		Docket Numb 004578.114	er	Group Art Unit Filing Date Unknown December 21			1, 2001
	MAR 0	8 2002	U.S. PATENT	DOCUMEN	TS			
	DOCUMENTE OF	QEMAN TE	NAM	E	CLASS	SUBCLAS	SS FILIN	G DATE
00								
PP							MEC	FILE
QQ							SFD	VED
RR					<del></del>	7	echnol-	EIVED 8 2002
SS		<del>   </del>				<del>                                     </del>	echnology C	enter 20-
TT	<del> </del>					<del> </del>	_	<u>~~&lt;600</u>
บบ		-	-					
VV				<u></u>				
ww								
XX								
YY			<b></b>					
ZZ					· · · · · · -	<del>                                     </del>		
					·			
		FOR	reign pater	T DOCUM	ENTS	•		
	DOCUMENT NO.	DATE	COUNTI	UNTRY CLASS	SUBCLASS	SS	LATION	
AAA							YES	NO
BBB								
								<b>_</b>
ccc				<u>i</u>				
	]	DOCUMENT (I	ncluding Autho	r, Title, Sour	ce, Pertinent	Pages, and D	Pate)	
DDD V/	U.S. Serial No. 09/5 ASSOCIATED ME RAYT:009, case 37	THOD", by inver						
EEE	Wong, A.C.C., "Rac	lar Digital Beam				oratories, Har	low, Essex, U	J.K., -
FFF Die	Military Microwave Caputi, William J.,	s Conterence 198 'Stretch: A Time	82, 10/20/83, cove-Transformation	er sheet and p Technique", l	p. 287-294. IEEE Transac	ctions on Aero	space and Ele	ctronic
EXAMIN	Systems, Vol. AES-					,	····	•
DAMIN	50			DAIL CON	4///			
EXAMINE	R: Initial if citation conside	red, whether or not c	itation is in conforma	nce with MPEP	609 Draw line	through citation	if not in conform	ance and not

considered. Include copy of this form with next communication to the applicant U.S. PATENT AND TRADEMARK OFFICE

	1449		Application No. 10/028,009		Applicant(s) Paul E. Dou	cette, et al	Page 1 of
Information Disclosure Citation In an Application			Docket Number 004578.1147	Group Art Uni 2821		er 21, 2001	
5 2003	HELL	U	.S. PATENT DOCUM	ENTS			
ADEM	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING	DATE
A	5,475,392	12/12/95	Newberg, et al.				
В		· ·					
С							
D					4.		
E					0	· i.	<u> </u>
F					600	الله (ر	<u> </u>
G					1 3	4 0 '	7
Н							E
I						3000	
J						13.	
K					· .		
L			·			<u> </u>	
				INDENITE			
<del></del>	-	FOR	EIGN PATENT DOC	UIVLEIN I S			
<del></del>	DOCUMENT NO		· · · · · · · · · · · · · · · · · · ·		SURCIASS	TRANS	LATION
	DOCUMENT NO.	FOR DATE	COUNTRY	CLASS	SUBCLASS	TRANS	LATION
M			· · · · · · · · · · · · · · · · · · ·		SUBCLASS		
N			· · · · · · · · · · · · · · · · · · ·		SUBCLASS	YES	
N O			· · · · · · · · · · · · · · · · · · ·		SUBCLASS	YES	
N O P			· · · · · · · · · · · · · · · · · · ·		SUBCLASS	YES	
N O			· · · · · · · · · · · · · · · · · · ·		SUBCLASS	YES	
N O P		DATE	· · · · · · · · · · · · · · · · · · ·	CLASS		YES	
N O P	De Guirong, et al. "Mixer	DATE OCUMENT (In	COUNTRY  cluding Author, Title, So	CLASS urce, Pertinent	Pages, and Date	YES	NO
N O P Q	De Guirong, et al. "Mixer	DATE OCUMENT (In	COUNTRY	CLASS urce, Pertinent	Pages, and Date	YES	NO

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

U.S. PATENT AND TRADEMARK OFFICE

	. •									Page 1 of 1
PTO-1449  PTO-1449  Pro-1449  Pro-1449  Pro-1449  Pro-1449  Pro-1449  Pro-1449  Pro-1449  Pro-1449  Pro-1449				Application No. Applicant(s) Paul E. Doucette, et al.					ette et al	
	_			Docket Number	Docket Number Group Art Unit		it	t Filing Date		
THE	WEG1	Ormation Disclosus	re Citation	004578.	.1147	Unknov	vn	I	December	21, 2001
30		an Applicat	100							
<del>-200</del>	<del>2 3 2</del>	130		1				L		
i.			U	.S. PATENT I	DOCUMEN	TS				
Ü	41	DOCUMENT NO.	DATE	NAMI		CLASS	SUBCLA	88	EII INC	DATE
]							SUBCLA	.55	FILING	
3/5	A	5,517,529	05/14/96	Stehlil	k			-		
//	В	6,160,505	12/12/00	Vaishamp	ayan			_	~	
01	С									
	D							$\dashv$		
	Е							<b>—</b> ₹	RECE	VED
									OCT 2 5	
	F									
	G							iechr	nology Ce	nter 2600
	H									
$\neg$	I								-	•
$\dashv$	J							-		
	K						<u> </u>			
	L									
			FOR	EIGN PATEN	NT DOCUM	ENTS				
		DOCUMENT NO.	DATE	COUNT	COUNTRY CLASS	CLASS	SUBCLASS		TRANS	LATION
									YES	NO
	M									
	N									
	0									
	P									
	Q							+		
										L
			OCIMENT C	aludie - A4b	Title C	n De-M 1	Dages and T	204-1		
		D	OCUMENT (In	ciduing Author	, rine, sourc	.e, refunent	ı ages, anu I	ratej		
<u>_</u> -	R	Brown, et al., "Digital	L-Band Receiver	r Architecture W	ith Direct RF	Sampling"	IEEE Position	n Loca	ation and	
Ŀß		Navigation Symposiur	n, April 1994, pa	ges 209-216 plu	is IEEE abstra	ct sheet.	•			
11	S	Song, William S., "A I Thirty-First Asilomar IEEE abstract sheet.								
	T									
EX	AMΠ	NER			DATE CON	SIDERED	.///			
			<i></i>			8	16/21			
EXA	MINE	R: Initial if citation consider	ed, whether or not cit	ation is in conforma	nce with MPEP 8	609. Draw line	through citation	if not i	in conforma	nce and not
cons	idered	. Include copy of this form wi	th next communication	on to the applicant.						